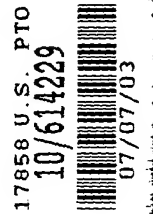


**PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Docket No: 29936/39458

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450



Sir:

Transmitted herewith for filing is the patent application of

Inventors: Ki Seog Kim, Keun Woo Lee, Sung Kee Park, Yoo Nam Jeon

Title: ROW DECODER IN FLASH MEMORY AND ERASE METHOD OF
FLASH MEMORY CELL USING THE SAME

1. Type of Application

- ☒ This is a new application for a
☒ utility patent.
☐ design patent.
☐ This is a continuation-in-part application of prior application no.

2. Application Papers Enclosed

- 1 Title Page
13 Pages of Specification (excluding Claims, Abstract, Drawings & Sequence Listing)
4 Pages of Claims
1 Page of Abstract
3 Sheets of Drawings (Figs. 1 to 6)
☒ Formal
☐ Informal

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **July 7, 2003**, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EV 323 774 789 US.

Richard Zimmermann

3. Declaration or Oath

- ☒ Enclosed
- ☒ Executed by (check all applicable boxes)
- ☒ Inventors
- ☐ Legal representative of inventor(s)
(37 CFR 1.42 or 1.43)
- ☐ Joint inventor or person showing a proprietary interest
on behalf of inventor who refused to sign or cannot be
reached
- ☐ The petition required by 37 CFR 1.47 and the statement
required by 37 CFR 1.47 are enclosed. See Item 5D
below for fee.
- ☐ Not enclosed - the undersigned attorney or agent is authorized to file this
application on behalf of the applicant(s). An executed declaration will follow.

4. Small Entity Status

- ☐ Applicant claims small entity status. See 37 CFR 1.27.

5. Additional Papers Enclosed

- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement
- ☐ Declaration of Biological Deposit
- ☐ Computer readable copy of sequence listing containing nucleotide and/or
amino acid sequence
- ☐ Microfiche computer program
- ☐ Associate Power of Attorney
- ☐ Verified translation of a non-English patent application
- ☐ An assignment of the invention
- ☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
- ☒ Return receipt postcard
- ☒ Other: Specification title page

6. Priority Applications Under 35 USC 119

A certified copy of the application from which priority under 35 USC 119 is claimed
is listed below and

- ☒ is attached.
- ☐ will follow.

COUNTRY	APPLICATION NO.	FILED
Korea	2002-42155	July 18, 2002

7. Filing Fee Calculation (37 CFR 1.16)

A. ☒ Utility Application

CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT (IF ANY)

			SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	NO. FILED	NO. EXTRA	RATE	FEE	RATE	FEE
BASIC FEE				\$375.00		\$750.00
TOTAL	11 - 20	= 0	X 9 =	\$	X 18 =	\$00.00
INDEP.	2 - 3	= 0	X 42 =	\$	X 84 =	\$00.00
: First Presentation of Multiple Dependent Claim			+ 140 =	\$	+ 280 =	\$
Filing Fee:				\$	OR	\$750.00

B. Design Application

Filing Fee: \$ _____

C. Plant Application

Filing Fee: \$ _____

D. Other Fees

- ☐ Recording Assignment \$ _____
- ☐ Petition fee for filing by other than all the inventors
or person on behalf of the inventor where inventor refused
to sign or cannot be reached \$ _____
- ☐ Other \$ _____

Total Fees Enclosed \$750.00

8. Method of Payment of Fees

- ☒ Enclosed check in the amount of: \$750.00
- ☐ Charge Deposit Account No. 13-2855 in the amount of: \$ _____
A copy of this Transmittal is enclosed.
- ☐ Not enclosed

9. Deposit Account and Refund Authorization

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 13-2855. A copy of this Transmittal is enclosed.

Please refund any overpayment to Marshall, Gerstein & Borun at the address below.

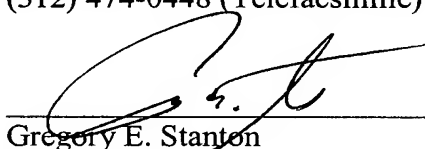
10. Correspondence Address
Customer No.: 04743

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6357
(312) 474-6300
(312) 474-0448 (Telefacsimile)

July 7, 2003

By:



Gregory E. Stanton
Reg. No. 45,127

07/07/03
14461 U.S. PTO

PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 750.00

Complete if Known

Application Number	Not Yet Assigned
Filing Date	July 7, 2003 (herewith)
First Named Inventor	Ki Seog Kim
Examiner Name	Not Yet Assigned
Group Art Unit	N/A
Attorney Docket No.	29936/39458

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account

Deposit Account Number

13-2855

Deposit Account Name

MARSHALL, GERSTEIN & BORUN

The Commissioner is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	750	2001	375	Utility filing fee	750.00
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$ 750.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
11	-20** =	0	0.00
2	-3** =	0	0.00
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00

SUBMITTED BY

Name (Print/Type) Gregory E. Stanton

Registration No. (Attorney/Agent)

45,127

Complete (if applicable)

Telephone (312) 474-6300

Signature

Date

July 7, 2003

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV 323774789 US, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date shown below.

Dated: July 7, 2003

Signature:

Richard Zimmermann (Richard Zimmermann)